

# 3D Thermal Gap Pad Product Guide

## Features



**3D Geometry**  
Flexible shape design



**Reusability**  
Easily peeled and reused



**Reversibility**  
<20 % Low Compression  
Permanent Strain Rate



**Insulating Property**  
≥10 kV/mm AC power Source



**Flexibility**  
E<30 Durometer



**Usable Temp.**  
-40 ~ 150 °C



**Flame Retardancy**  
V-0 Equivalent

## Characteristics

Item		Unit	3DPad-1.4 (FEATHER S3)	3DPad-2.2BB	3-4W Type (Development)	
Physical Property	Flame Resistance	g/cm <sup>3</sup>	V-0	V-0	V-0 Equivalent	
	Thermal Conductivity	KPa	1.4	2.2	3.0 - 4.0	
	Hardness	Type E	%	12	45	30
	Compression Set (24 h, r.t.)	KPa	<27	<16	-	
	Specific Gravity	%	1.8	2.8	>3	
	Breakdown Voltage	%	≥10	≥10	≥10	

\*Included under development grade in above table  
\*Flame resistance may change depending on the thickness

## Product Design Guide

### 1. PL Design

	Design 1	Design 2	Design 3
Mold Type	2 Plates 	2 Plates  3 Plates 	Both the upper and lower molds have digging. 
Feasibility	Very Feasible	Feasible	Not Feasible

### 2. Design Requirement

#### Size

Min Φ10 ~  
Max 250 mm  
\*To be discussed about  
Cavity layout and mold size

#### Thickness

1.0mm  
or more

#### Draft

5° or more

#### Hole

**Not feasible**

#### Corner R

R1 or more

#### Fillet R

R1 or more  
\*Case of 3 plates  
type, unable  
to apply fillet R

#### Under Cut

**Not feasible**

#### Other

Burr min. 0.3 mm  
Bubble, Appearance  
\*To be discussed about  
Quality requirement and  
standard condition

